including 15 of the 22 cities covered by the survey, at an estimated cost of Rs. 2186.14 crore. The projects include segregation at source, collection, transportation, processing & treatment and disposal of solid waste in accordance with Municipal Solid Waste (Handling & Management) Rules-2000.

Propagation of new and renewable energy sources

3496. SHRI MOHAMMED ADEEB:
SHRI SABIR ALI:

Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

(a) the new initiatives of his Ministry for increased propagation and adoption of new and renewable energy sources by the masses;

(b) the targets fixed in this regard; and

(c) the subsidies being offered to the users?

THE MINISTER OF NEW AND RENEWABLE ENERGY (DR. FAROOQ ABDULLAH): (a) and (b) The major new initiatives taken by the Ministry in recent past for propagation and adoption of various renewable energy sources in the country are as under:

- A National Solar Mission has been approved with first phase target of 1100 MW grid-interactive and 200 MW off-grid solar power by 2013.
- Following new schemes have been introduced:
  - Generation Based Incentive for wind power projects with a capacity addition target of 4000 MW during 11th Plan period.
  - Schemes for SPV Power plants at tail-end of grid and Roof-top SPV systems for diesel abatement, with a target of 8.25 MWp for 11th Plan.
  - UNDP/GEF assisted project for large-scale promotion of Solar Water Heating systems initiative.
  - Scheme for promotion of Green Buildings with target of 35 lakhs sq.m. covered area. A National rating system 'GRIHA' has been introduced.
  - Scheme for Incentivising Banks for financing Solar Home lighting Scheme with target of 2.5 lakh systems till March 2011.
  - Scheme for demonstration of Renewable energy systems at Iconic buildings –Scheme for micro-hydel/water-mills for border areas with target of installation of 50 micro-hydel and 2000 watermills during 11th Plan.
- Focus on promotion of power generation from rice husk for rural electrification.
- Policy and Regulatory initiatives relating to renewable power: Normative guidelines for tariff setting for renewable power issued through CERC; scheme for Renewable Energy Certificates, etc.

(c) Details of the existing levels of Central Financial Asistance/subsidies offered under various renewable energy programmes/schemes of the Ministry are given in in the statement.

Statement

Central Financial Assistance/subsidies provided under various renewable energy programmes/schemes throughout the country

A. Off-grid Renewable Energy Programme

S.No.	Scheme/Programme	Central Financial Assistance provided
1	2	3
1.	Remote Village Electrification: Electricity generation/lighting systems for households in remote unelectrified census villages/ hamlets	90% of the cost of electricity generation systems subject to a pre-specified maximum amount for each technology and an overall ceiling of Rs.18,000 per household.100% cost of a single light SPV home lighting system for BPL households.
2.	Family Type Biogas Plants NE Region States including Sikkim (except plain areas of Assam)	Rs.11,700 to Rs.14,700 per plant depending on capacity of plant and under CDM Programme or NBMMP
	Plain areas of Assam	Rs.9,000 to Rs.10,000 per plant depending on capacity of plant and under CDM Programme or NBMMP
	J&K, Himachal Pradesh, Uttarakhand (excluding Terai region), Nilgiris of Tamil Nadu, Sadar, Kurseong and Kalimpong sub-divisions of Darjeeling, Sunderbans, A&N Islands	Rs.3,000 to Rs.10,000 per plant depending on capacity of plant and under CDM Programme or NBMMP
	All Others	Rs.2,100 to Rs.8,000 per plant depending on capacity of plant and under CDM Programme or NBMMP
3.	Biomass Gasifiers for Rural Areas	Rs.15.00 lakh/100 kWe on prorate basis of multiple their for village level electrical applications, (with 100% producer gas engine)
		20% higher subsidy for Special Category States & Islands
4.	Biomass Gasifiers for Industrial Applications	Rs.2.00 lakh/300 kWe for thermal applications

1	2	3	
		Rs.2.50 lakh/100 kWe with dual fuel engine	
		Rs.10.00 lakh/100 kWe with 100% producer gas engine	
		Rs.15.00 lakh/100 kWe with 100% producer gas engine in institutions	
5.	Biomass Co-generation (non-bagasse) for captive use in industry	Rs.20.00 lakhs per MW subject to a maximum of Rs.1 crore/ project. (20% higher subsidy for Special Category States)	
6.	Urban Waste to Energy	Rs.1.0 to 3.0 crore / MWe, depending on technology. (20% higher subsidy for Special Category States)	
7.	Industrial Waste-to-Energy Plants	Rs.20.00 lakh to Rs.1.00 crore/ MWe. depending on technology. (20% higher subsidy for Special Category States)	
8.	Solar Photovoltaic (SPV) Systems		
Aggregate Systems capacity		CFA	
		NE Region and Special Category States	UTs Other States/
SPV Home-lighting systems		4500 (18Wp) 8660 (37-74Wp)	2500 (18Wp) 4800 (37-74 Wp)
SPV Street Lighting systems		17300 (74Wp)	9600 (74 Wp)
Stand-alone SPV Power plants more than 1 kWp (with capacity less than 1 kWp on case to case basis.)		Rs.225/Wp	Rs.270/ Wp
more than 10 kWp with distribution line		Rs.270/Wp	Rs. 150/ Wp
SPV Traffic Lights - up to 100 Wp module capacity		Rs.l50/Wp for systems with battery bank of 6 hrs/Rs.1.15/Wp without battery bank for organizations not availing accelerated depreciation.	
PV Blinkers			
Solar Power Packs Up to 1 kWp		Rs.100/Wp for systems with battery bank of 6 hrs / Rs.75/Wp without battery bank for organizations availing accelerated depreciation.	

1	2	3
	Solar Illuminating Hoardings/ Bill boards -up to 1 kWp modules capacity Other systems for community use in Urban and industrial Areas	
	SPV Roof-top Systems in Urban Areas - from 10kW to 100kW	Rs. 75/ Wp, limited to 30% of the cost of systems to profit making bodies availing depreciation benefits Rs. 100/ Wp limited to 40% of the cost of systems to non- profit making bodies
	SPV lanterns	Rs. 2,400 for NE and special areas; nil for other. 100% cost of one SPV lantern for school going girl child of BPL family studying in class IX -XII during entire period of school study
	SPV Water Pumping Systems	Rs.30/ Wp of SPV array used, subject to a maximum of Rs.50,000 per system.
9.	Small Aero-Generators and Hybrid Systems	90% of ex-works cost or Rs.2.40 lakh/ kW, whichever is less, in unelectrified islands 75% of ex-works cost or Rs.2.00 lakh/kW, whichever is less, in other areas, for government/ community use. 50% of ex-works cost or Rs.1.25 lakh/ kW, whichever is less, for all other users.
10.	Solar Thermal Systems/Devices	Box type cookers; Incentive to SNA: - Rs.200 per cooker of IS1 brand - Rs.100 per cooker of non-ISI brand - Up to Rs.1.50 lakh for pub./workshops etc. Support to manufacturers: reimbursement of 50% fees for obtaining BIS approval.
11.	Solar Thermal Systems/ Devices (Continued)	Solar Water Heating systems: - Subsidized Loan @ 2% to domestic users (nil) for special category states), 3% to institutions and 5% to community users plus Rs.100/ square meter of collector area as incentive to motivator.

1	2	3
		- Capital subsidy @ Rs. 1400/1750/1900 per sq.m. to commercial establishments/ institutions/housing complex developers. Solar Air Heating/ Steam Generating Systems: Capital subsidy @ 35-50% of the cost subject to certain ceilings. Dish / community type solar cookers: 30% of cost limited to Rs.1,500 for Dish type cookers and Rs. 15,000 for Scheffler/Community type cooker.
12.	Akshay Urja Shops	Subsidized loan @7% upto Rs.10 lakh and performance based grant & incentive up to Rs.10,000 per month.

B. Grid-Interactive Renewable Power Programmes

S. No.	Projects Category	Central Financial Assistance provided	
		Special Category States (NE Region, Sikkim, J&K, HP and Uttaranchal)	Other States
1	2	3	4
1	Small Hydro Power Projects	Rs.2.25 crore X (C) ^ 0.646	Rs.1.50 crore X (C)^ 0.646
2	Biomass Power Projects	Rs.25 lakh X (C) ^0.646	Rs.20 lakh X (C) ^0.646
3	Bagasse Co-generation Projects by private sector	Rs.18 lakh X (C) ^0.646 40 bar & above	Rs.15 lakh X (C) ^0.646
4	Bagasse Co-generation Projects (by cooperative/ public/ joint sector)	Rs.40 lakh/MW*	Rs.40 lakh/MW*
	40 bar & above	Rs.50 lakh/MW*	Rs.50 lakh/MW*
	60 bar & above	Rs.60 lakh/MW*	Rs.60 lakh/MW*
	80 bar & above	Limited to Rs.8 crore/project	Limited to Rs.8 crore/ project
5	Biomass Power using Advanced Technologies	Rs.1.2 crore X @ ^0.646	Rs.1.0 crore X @ ^0.646

1	2	3	4
6	Wind Power projects	Rs.3.00 crore X @ ^0.646	Rs.2.50 crore X @ ^0.646
7.	Biomass Gasifier	20% higher CFA	Rs.150.0 lakh / Kwe on prorate basis or multiple thereof
8.	Solar PV Power	50% of project cost subject to a maximum of Rs.10 crore / MW for tail end grid power projects to be implemented by utilities or generation companies in the State sector	

C: Capacity of the project in MW; ^: raised to the power

* For new sugar mills (which are yet to start production and sugar mitts employing backpressure route/seasonal/incidental cogeneration) subsidies shall be one-half of the level mentioned above.

Biogas plants in Tamil Nadu

3497. SHRIMATI JAYANTHI NATARAJAN: Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

(a) the number of individual and community biogas plants established in Tamil Nadu during the last five years, year-wise and district-wise;

(b) whether Government has fixed any targets of biogas plants for the State during the Eleventh Five Year Plan;

(c) if so, the details thereof; and

(d) how Government proposes to achieve these targets in the State?

THE MINISTER OF NEW AND RENEWABLE ENERGY (DR. FAROOQ ABDULLAH): (a) Individual/family type of biogas plants are installed under National Biogas Manure Management Programme (NBMMP) of the Ministry of New and Renewable Energy in various States of the country. Number of family type biogas plants installed under the programme in the State of Tamil Nadu during the last five years is given in the Statement (*See* below). District-wise information is maintained at the Slate level. The Ministry is not implementing programme for community biogas plants.

(b) and (c) Under the National Biogas Manure Management Programme only year-wise targets are fixed for various States. For the year 2009-10 a target for the installation of 1500 plants has been fixed for the State of Tamil Nadu.

(d) In order to achieve the targets for setting up of family type biogas plants the concerned State government department takes up action for training and installation in accordance with the provisions contained in the Administrative Approval of the National Biogas and Manure Management Programme.